Name of Work: 2018-19 Construction of Mini Material Recovery Collection Centre at Various Places.

TYPE - IX (Size 2.50 x 1.60 mts.)

1) 10.16.1 Steel work in built up tubular (round, square or rectanglar hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes.

a) $50 \times 25 \times 2.60^{mm}$ Rectangular Hollow section for supporting post of roof.

For post (Front)	4	x	2.10	=	8.40
Tie beam (Length wise)	3	x	2.50	=	7.50
Tie beam (Width wise)	2	x	0.60	=	3.20

19.10 m x 2.71kg/m = 51.761 kg

b) $25 \times 25 \times 2.60^{mm}$ Square Hollow section for common rafters.

2x4 x   1.00   = 8.00 m x 1.69 kg/m   = 13.52 kg

= 65.281 kg

Say 65.50 kg   Rs. 130.07 / kg   = Rs. 8519.59

2) 10.25.2 Item shifted to head 14 as item 14.74 steel work welded in built up sections of framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in grainting, frames, guard bar, ladder, railing brackets, gates and similar works.

a) 30 x 20 x 3^{mm} angel iron frame and 5^{mm} dia MS rods vertical and horizontal nets at 10cm c/c for compartment

Bottom row compartment	1 x	2	=	2 No.
No. of mesh pieces	4 x	5	=	20 Nos.
Top row compartment	1 x	2	=	1 No.
No. of mesh pieces	4 x	4	=	16 Nos.
1 pieces weight of mesh			=	6.023 kg.
Hence 36 Nos. (20 +16) pieces of weight	36 x	6.023	=	216.828

Say 220.00 kg Rs. 123.87/ kg = Rs. 27251.4

3) 12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation asapproved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of thesheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 micronsminimum to avoid scratches during transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping

Roof	1 x	2.50	x	1.42	= 3.55
	2 x	3.45	x	1.45	= 9.86
					5.18

Say 10.00 m² Rs. 793.24/m² = Rs. 7932.40

4) Providing lock and locking arrangement with name board.

LS = Rs. 2500.00
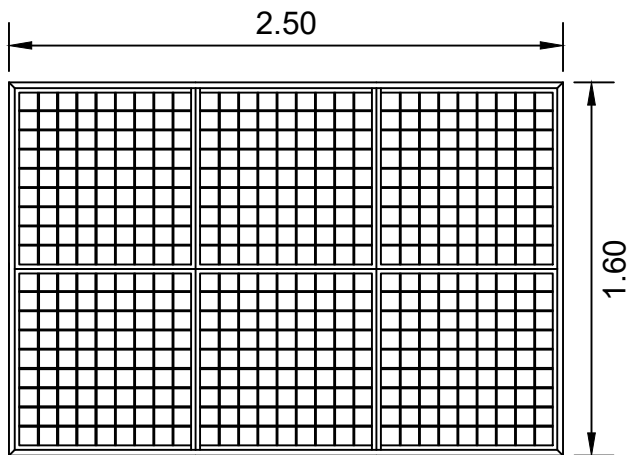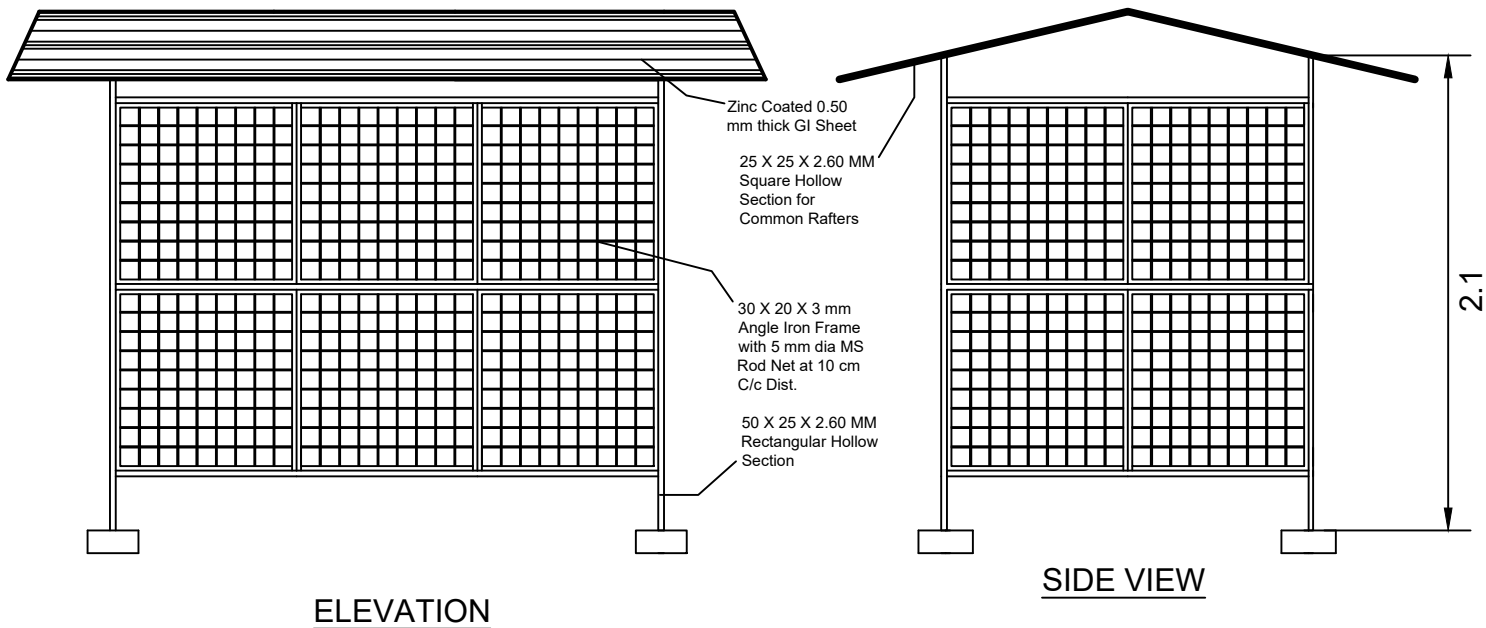
Total = Rs. 46203.39

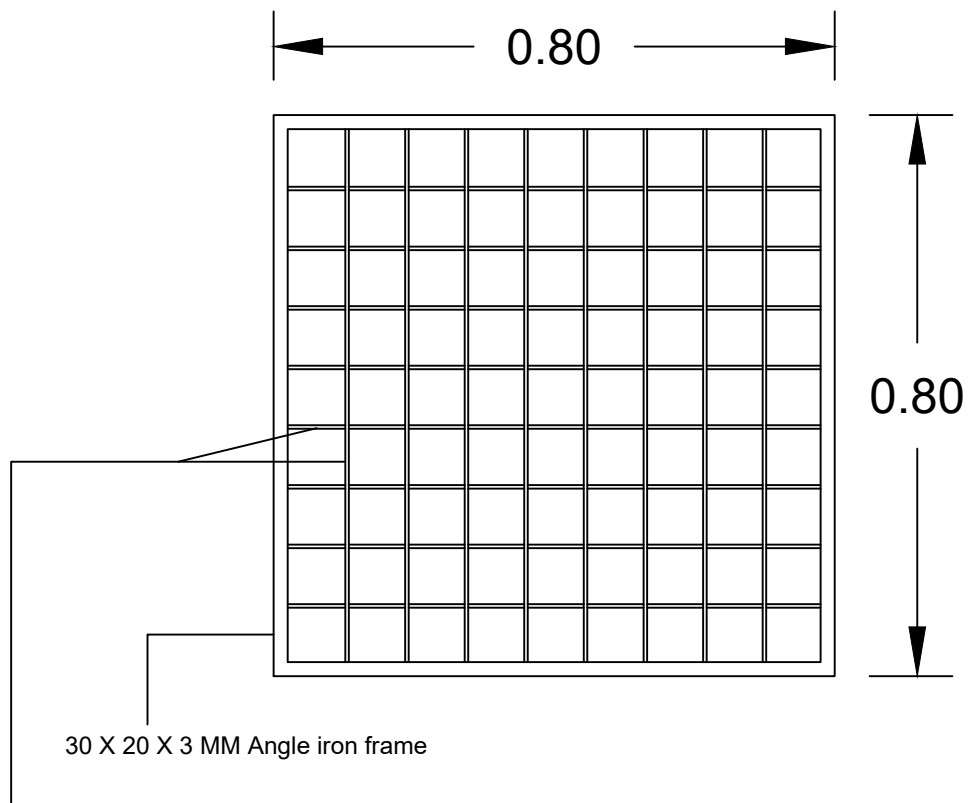|		
Unforeseen	=	Rs. 296.61
Grand Total	=	Rs. 46500.00
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Name of work - 2018-19 Construction of a Mini Material Collection Center at various places

Type No. IX (Size 2.50 X 1.60 M)

Zinc Coated 0.50 mm thick GI Sheet

25 X 25 X 2.60 MM Square Hollow Section for Common Rafters

30 X 20 X 3 mm Angle Iron Frame with 5 mm dia MS Rod Net at 10 cm C/c Dist.

50 X 25 X 2.60 MM Rectangular Hollow Section

2.1

ELEVATION

SIDE VIEW

2.50

1.60

PLAN

Details of one piece of mesh

0.80

0.80

30 X 20 X 3 MM Angle iron frame

5 MM Dia M.S. rods for net @ .085 M c/c

Data for 1 piece of mesh in size 0.80 X 0.80 M

(a)   30 X 20 X 3 MM Angle iron frame :-

       Vertical Frame   -2 X 0.80 = 1.60

       Horizontal Frame -2 X 0.80 = <u>1.60</u>

                              3.20 M X 1.10 Kg/M = 3.52 Kg

(b)   5 MM Dia M.S. rods Vertical and Horizontal net :-

       Vertical   - 9 X 0.80 = 7.20

       Horizontal   - 9 X 0.80 = <u>7.20</u>

                        14.40 M X 0.154 Kg/M = <u>2.217</u> Kg

                                          5.737

                  add 5 % wastage   <u>0.286</u>

                                        6.023 Kg